Programmer to Programmer™



Excel 2003 VBA

Programmer's Reference

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Excel 2003 и VBA

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В данной книге рассматриваются вопросы проектирования и разработки приложений Excel с использованием встроенного языка VBA. Начав с основ VBA, вы познакомитесь с принципами автоматизации большинства выполняемых в Excel задач, а также с созданием надстроек, применением Windows API, профессиональными приемами отладки и обработки ошибок, использованием языка SQL для получения данных из внешних источников и программным управлением другими приложениями Office. В книге содержится множество примеров кода и, при необходимости, приводятся копии экранов. Все авторы являются признанными экспертами по разработке приложений для Excel, и их советы окажутся полезны как начинающим, так и опытным пользователям Excel, а также разработчикам.

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```
Sub RemoveScripts()

    Dim oScript As Script
    Dim sh As Object

    ' Suppress errors (ex: no active workbook)
    On Error Resume Next

    ' Remove all of the scripts objects in this workbook
    For Each sh In ActiveWorkbook.Sheets
        For Each oScript In sh.Scripts
            oScript.Delete
        Next oScript
    Next sh

End Sub
```

SearchFolders Collection Object

Represents all of the folders used in a File Search (by the `FileSearch` object). `SearchFolders` consist of `ScopeFolder` objects (with the corresponding `ScopeFolders` collection), which are simply folders. Use the `Add` method of the `SearchFolders` object to add `ScopeFolder` objects to its collection.

SearchFolders Collection Common Properties

The `Application`, `Count`, and `Creator` properties are defined at the beginning of this Appendix.

SearchFolders Collection Properties

Name	Returns	Parameters	Description
`Item`	`Scope Folder`	`Index` as `Long`	Returns a `ScopeFolder` object that represents a subfolder of the parent object

SearchFolders Collection Methods

Name	Returns	Parameters	Description
`Add`		`ScopeFolder` as `ScopeFolder`	Adds a search folder to a file search
`Remove`		`Index As Long`	Removes a search folder from a file search

Example: SearchFolders Collection Object

The following routine searches for all Excel workbooks in folders containing the word "billing" on the F drive (on the network) and displays the results on a worksheet:

```
Sub ReportBillingFilesFromNetWorkDrive()

    Dim lCount As Long, lRow As Long
```

```
    Dim oSearchScope As SearchScope
    Dim oScopeFolder As ScopeFolder
    Dim oScopeSubFolder As ScopeFolder

    With Application.FileSearch

        ' Reset FileSearch object. See FileTypes collection for this routine
        ResetFileSearch

        ' Loop through the SearchScopes collection
        ' looking for the My Computer area (scope)
        For Each oSearchScope In .SearchScopes
            If oSearchScope.Type = msoSearchInMyComputer Then
                Set oScopeFolder = oSearchScope.ScopeFolder
                Exit For
            End If
        Next oSearchScope

        ' Now loop through the My computer area (scope)
        ' until we find the mapped "F Billing" drive on the network
        For Each oScopeSubFolder In oScopeFolder.ScopeFolders
            If oScopeSubFolder.Name = "Billing (F:)" Then
                Set oScopeFolder = oScopeSubFolder
                Exit For
            End If
        Next oScopeSubFolder

        ' Now loop through each top-level folder in the F drive adding any
        ' folder that contains the name Billing to the SearchFolders
        ' collection
        Set oScopeSubFolder = Nothing
        For Each oScopeSubFolder In oScopeFolder.ScopeFolders
            If InStr(1, oScopeSubFolder.Name, _
                    "billing", vbTextCompare) > 0 Then
                .SearchFolders.Add oScopeSubFolder
            End If
        Next oScopeSubFolder

        ' Look for Excel workbooks
        .FileType = msoFileTypeExcelWorkbooks

        ' Don't search subfolders. Setting this to True will override the
        ' SearchFolders collection and will search the entire contents of
        ' the F drive
        .SearchSubFolders = False

        If .Execute > 0 Then 'Files were found
            ' Dump the files found on the wksBillingFiles worksheet
            wksBillingFiles.UsedRange.Offset(1, 0).ClearContents

            ' The first row contains the column heading
            lRow = 2
            For lCount = 1 To .FoundFiles.Count
                wksBillingFiles.Cells(lRow, 1).Value = .FoundFiles(lCount)
```

```
                lRow = lRow + 1
            Next lCount
        Else
            MsgBox "No Files found", vbInformation, "Billing Files"
        End If

    End With

End Sub
```

SearchScopes Collection Object

Represents the list of top-level searchable areas when performing a File Search using the `FileSearch` object. Top level areas include My Computer, My Network Places, Outlook (folders), and Custom, if available.

SearchScopes Collection Common Properties

The `Application`, `Count`, and `Creator` properties are defined at the beginning of this Appendix.

SearchScopes Collection Properties

Name	Returns	Parameters	Description
`Item`	`SearchScope`	`Index as Long`	Returns a `SearchScope` object that corresponds to an area in which to perform a file search, such as local drives or Microsoft Outlook folders

Example: SearchScopes Collection Object

The following routine lists all of the `SearchScopes` on the current computer.

```
Sub FindSearchScopes()

    Dim lRow As Long
    Dim oSearchScope As SearchScope

    With Application.FileSearch

        ' Clear the old results
        wksSearchScopes.Range("Info").ClearContents

        ' Set the starting row
        lRow = wksSearchScopes.Range("Info").Cells(1, 1).Row

        ' Loop through the SearchScopes collection
        ' looking for the My Computer area (scope)
        For Each oSearchScope In .SearchScopes
            ' Dump the info found on the wksSearchScopes worksheet
```

```
            wksSearchScopes.Cells(lRow, 1).Value = _
                oSearchScope.ScopeFolder.Name
            wksSearchScopes.Cells(lRow, 2).Value = oSearchScope.Type
            lRow = lRow + 1
        Next oSearchScope

        ' Sort the list by Scope Type
        With wksSearchScopes
            .Range("Info").Sort Key1:=.Cells(1, 2), Order1:=xlAscending
        End With

    End With

End Sub
```

SearchScope Object

An individual top-level area in the SearchScopes Collection object that can be searched when using the FileSearch object.

SearchScope Common Properties

The Application and Creator properties are defined at the beginning of this Appendix.

SearchScope Properties

Name	Returns	Description
ScopeFolder	ScopeFolder	Returns a ScopeFolder object
Type	MsoSearchIn	Read Only. Returns a value that corresponds to the type of SearchScope object. The type indicates the area in which the Execute method of the FileSearch object will search for files

SharedWorkspace Object

The SharedWorkspace property returns a SharedWorkspace object which allows the developer to add the active document to a Microsoft Windows SharePoint Services document workspace on the server and to manage other objects in the shared workspace.

SharedWorkspace Properties

Name	Returns	Description
Application	Object	Returns an **Application** object that represents the container application this object
Connected	Boolean	Indicates if the current document is save in and connected to a workspace. Read-only

Programmer to Programmer™

Excel 2003 VBA

Programmer's Reference

If you're an Excel user seeking more control over your spreadsheets, or if you are developing Excel applications for others, this comprehensive volume provides what you need to maximize VBA flexibility in the Excel environment. Fully revised and updated, it focuses exclusively on VBA for Excel and provides appropriate information for beginners, Excel programmers, and advanced developers alike.

Packed with examples, code, and screenshots where applicable, this clearly organized reference meets you at the level of your experience and takes you to the next level. From a complete Excel VBA primer to internationalization, advanced debugging techniques, and programming the VB editor, this is your one-stop reference for Excel VBA programming.

What you will learn from this book

- Object-oriented theory and VBA for Excel
- Ways to set up applications and convert them to add-ins
- How to use VB6 and VB.NET with Excel
- Programming to the Windows® API
- Advanced error handling and debugging methods
- Essentials of SQL® as it applies to accessing data with ADO
- Interaction with other Office applications and databases
- How to access extensive reference material in downloadable, searchable format

Who this book is for

This book is for Excel users and programmers from beginning to advanced. You need a reasonable working knowledge of Excel and a full installation of the software.

Wrox Programmer's References are designed to give the experienced developer straight facts on a new technology, without hype or unnecessary explanations. They deliver hard information with plenty of practical examples to help you apply new tools to your development projects today.

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